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## New England Biolabs Certificate of Analysis

Product Name: Rsal
Catalog Number: R0167S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in rCutSmart™ Buffer in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10167252
Expiration Date: 10/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

200 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0167S/L v2.0

Rsal Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0167SVIAL	Rsal	10167249	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10162784	Pass	
B6004SVIAL	rCutSmart™ Buffer	10164465	Pass	

Assay Name/Specification	Lot # 10167252
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 50 units of Rsal incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Functional Testing (15 minute Digest) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and 1 µl of Rsal incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 50 units of Rsal incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with Rsal, >95% of the DNA fragments	Pass



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This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

YunJie Sun \
Production Scientist
19 Oct 2022

Michael Tonello

Packaging Quality Control Inspector

28 Oct 2022